

# The Corporation of the Township of Huron-Kinloss



## BY-LAW

**2022-58**

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### Being a By-Law to Accept a Quotation for Upgrades to the Huronville South Pumphouse for the Township of Huron-Kinloss

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**WHEREAS** the Municipal Act S.O. 2001, c 25, Section 5(1), as amended, provides that the powers of a municipal corporation are to be exercised by its Council;

**AND WHEREAS** the Municipal Act S.O. 2001, c 25, Section 5(3), as amended provides that a municipal power, including a municipality's capacity rights, powers and privileges under Section 9, shall be exercised by By-law;

**AND WHEREAS** The Council for the Corporation of the Township of Huron-Kinloss deems it expedient to accept the Quotation of Eramosa Engineering Inc. for upgrades to the Huronville South Pumphouse in the amount of \$301,992.87 plus HST.

**NOW THEREFORE** the Council of The Corporation of the Township of Huron-Kinloss enacts as follows:

- 1.0 That The Corporation of the Township of Huron-Kinloss accepts the Quotation of Eramosa Engineering Inc. for upgrades to the Huronville South Pumphouse in the amount of \$301,992.87 plus HST.
- 2.0 That the Corporation of the Township of Huron-Kinloss Council hereby enters into an agreement with Eramosa Engineering which is attached as Schedule "A" and forms part of this By-law.
- 3.0 That the Mayor and Clerk are hereby authorized to sign on behalf of the Council for The Corporation of the Township of Huron-Kinloss, any contracts and other documents required to authorize the work to proceed, and to affix the corporate seal of the Township of Huron-Kinloss.
- 4.0 This By-law shall come into full force and effect upon final passage.
- 5.0 This By-law may be cited as the "Huronville South Pumphouse Upgrades 2022 By-Law".

**READ a FIRST and SECOND TIME this 20<sup>th</sup> day of April, 2022.**

**READ a THIRD TIME and FINALLY PASSED this 20<sup>th</sup> day of April, 2022.**

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Mitch Twolan, Mayor

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Emily Dance, Clerk



File: 369617.H  
Date: Mar 21<sup>st</sup>, 2022

Township of Huron Kinloss  
21 Queen Street  
P.O. Box 130  
Ripley, ON  
N0G 2R0

Attention: John Yungblut  
Director of Public Works

**REF: Township of Huron-Kinloss Huronville South Pump Station Upgrade  
EEI Project # 369617.H R2**

Dear John:

Eramosa Engineering Inc. (Eramosa) is pleased to respond to your request for pricing to upgrade the Huronville South Pump Station (PS) programmable logic controller (PLC) control panel and MCC.

In August 2017 Eramosa and the Township entered into an agreement for electrical, instrumentation and controls engineering and network assistance with PLC and supervisory control and data acquisition (SCADA) software related work. Reference By-Law 2017-94.

At this time, we would like to submit pricing for the PLC panel replacement at the Huronville South PS. We have included fees for the design and installation of the new MCC. Additionally, we have recommended a budgetary cost for the motor control centre (MCC) as this cost is not included in our proposal.

Our scope and deliverables as understood from meetings and correspondence include the following options:

- Develop a Process Control Narrative (PCN) – This document is approved by all relevant stakeholders before programming begins confirming that the process runs as it should.
- PLC control panel design, supply, delivery and installation – see attached preliminary panel drawings and bill of material (BOM).
- MCC design, delivery and installation – see attached preliminary drawings. It is anticipated that installation of the MCC will occur over a minimum two day period, during which the station will be out of service.
- PLC program updates – we will continue to use Eramosa programming standards and practices.
- Factory Acceptance Test (FAT) of the new control panel witnessed by Eramosa.

- Factory Acceptance Test (FAT) of the software which will be completed at Eramosa's Guelph office or virtually with the Township's operations staff prior to going to site.
- Electrical installation of the new PLC control panel and removal of unused electrical components. I/O checks and Site Acceptance Test (SAT).
- Coordination with HuronTel to provide and terminate ethernet connection to the new PLC control panel.
- Coordination with Hydro One for isolation and inspection.

Item	Description	Cost
1	Project management and contractor coordination, field investigation, electrical and instrumentation and control preliminary & detailed design including PLC panel, MCC, lighting panel. drafting, PCN development, PLC and SCADA programming, on-site commissioning & testing. As-built panel drawings and post-commissioning support.	\$55,755.00
	Disbursements (7% on Labour)	\$3,902.85
2	Installation of new PLC panel including new conduit and wire to existing I/O, addition of relays as required, install communication cable as required. Removal of existing MCC, delivery and installation of new MCC and MTS, Electrical Safety Authority (ESA) inspection and coordination with Hydro One for isolation and connection. Set up power monitor and connect new lighting panel. Installation of outdoor control box and customer supplied generator plug.	\$32,259.00
3	NEMA 4X Hammond PLC control panel including Allen Bradley CompactLogix PLC, ethernet switch, UPS etc. CSA approvals, (per attached BOM) including new Siemens ultrasonic transmitter.	\$33,759.00
4	New Eaton MCC complete with ATS, lighting panel, transformer, starters, power monitor.	See note below this breakdown
5	New Eaton MTS	
5	Contingency during construction (5% of construction fees)	\$6,100.00
<b>Total (Excluding GST/HST)</b>		<b>\$131,775.85</b>

\*We recommend the Township budget at least \$149,735.42, for the MCC, and \$20,481.60, for the MTS, in addition to our fees for the cost of replacing the upgrading the MCC and standby power hardware. These are quoted prices from Belwood Electric, based on preliminary design by Eramosa, and are only valid until March 31, 2022.

We have built in a 5% contingency fee to be used only with the written authorization of the Township for any unforeseen costs during construction. This could include Hydro Isolation costs and/or a hydro meter base replacement if required.



This pricing does not include replacement of field devices such as pressure transmitters and flow meters. If instrumentation is in need of replacement, Eramosa would be pleased to offer a solution on a case by case basis.

Project Assumptions:

- Client FAT at Eramosa head office in Guelph or virtual,
- Existing data communications lines and equipment will be used,
- Existing process equipment such as well pump will be used,
- Existing motor leads will be tested and used,
- Existing chemical feed system and pumps will be used,
- UPS is sized for the new PLC control panel only,
- No hazardous classification,
- EEI PLC programming standards will be used,
- The PLC and MCC will be replaced at the same time.
- The old MCC will be left for township to remove to waste,
- The work to remove and replace the MCC will be performed over a minimum 2 day period of time, and
- The reverse fed generator receptacle will be supplied by the Township and installed at the same time as the MCC.

Eramosa requires 21 weeks delivery based on receiving a PO or written approval for this work. This cannot be guaranteed as the MCC has the longest lead time.

If you have any questions or concerns please don't hesitate to contact Scott Lillie at (226) 780-2281, or by email [scott.lillie@eramosa.com](mailto:scott.lillie@eramosa.com)

Yours truly,

**ERAMOSA ENGINEERING INC.**

*Scott Lillie*

Scott Lillie, C.E.T  
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